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SAMPLING AND ANALYSIS PLAN

REMEDIAL INVESTIGATION RICHARDSON FLAT

Site ID Number : UT980952840

February 20, 2001

Prepared for:

United Park City Mines Company
P.O. Box 1450
Park City, UT 84060

Prepared by:

Environmental Resource Management Consultants d.b.a. RMC
8138 South State Street, Suite 2A
Midvale, Utah 84047

Phone: (801) 255-2626
Fax: (801) 255-3266

2.2.1 Historical Data Summary

Previous data have been collected by EPA, United Park and Park City Ventures (PCV). The historic data cover a time period beginning in the early 1970's up to the present. Appendix E contains a listing of known site investigations and reports. Because past investigation activities by PCV, Noranda and United Park were performed without EPA oversight, the results from such investigations will be evaluated as part of, and incorporated as appropriate into, the focused RI/FS. A detailed description of the investigations previously conducted at the Site, which have included investigations of air quality, the extent of the tailings cover, tailings impoundment integrity and stability, and groundwater and surface water quality, are set forth in Sections 3.0 to 3.5 of the FOCUSED RI/FS Work Plan. Based on previous and current environmental studies and existing Site conditions, United Park has developed a draft Conceptual Site Model (CSM). The CSM has been developed with input from EPA, UDERR and the U.S. Fish and Wildlife Service (USFWS). Section 2.2.4 presents the CSM. The CSM will be used to determine what environmental samples are required, how the samples will be used in the risk assessment and derivation of clear SAP objectives. The CSM will be updated and modified as more information is obtained either through sampling or meetings with EPA and other stakeholders.

[Note: Although CERCLA guidance indicates that certain site descriptions that are already included in the FOCUSED RI/FS Work Plan need not be repeated, the descriptions set forth in the following Sections 2.2.1.1 to 2.2.2.4 are included to be more informative.]

2.2.2.1 Surface Water

Section 3.5 of the focused RI/FS Workplan presents a summary of historical surface water data for Silver Creek and the south diversion ditch. Surface water data have been collected on and near the Site since 1975 as part of permit requirements and investigations by EPA and United Park. The data generally show that metals concentrations measured in the south diversion ditch have declined particularly since the mid to late 1980's when the ditch was reconstructed and when the tailings were covered with clean soil (See, focused RI/FS Workplan, Table 3.1, Station N5). All exposed tailings have been covered with clean soils as part of voluntary remedial measures. Data collected in 1999 indicate that zinc concentrations measured at the outfall of the ditch